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(FILE 'HOME' ENTERED AT 17:24:03 ON 16 JUN 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 17:24:13 ON 16 JUN 2004

L1 34254 S ASPERGILLUS(W)NIGER
L2 4 S RNASE(W)B1
L3 3 S L1 AND L2
L4 1 DUP REM L3 (2 DUPLICATES REMOVED)

=> d bib ab l4

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2000:40269 CAPLUS
DN 132:204676
TI Characterization of **Aspergillus niger** B-1 RNase and its inhibitory effect on pollen germination and pollen tube growth in selected tree fruit
AU Roiz, Levava; Ozeri, Uzi; Goren, Raphael; Shoseyov, Oded
CS The Kennedy Leigh Centre for Horticultural Research, The Faculty of Agriculture, The Hebrew University of Jerusalem, Rehovot, 76100, Israel
SO Journal of the American Society for Horticultural Science (2000), 125(1), 09-14
CODEN: JOSHB5; ISSN: 0003-1062
PB American Society for Horticultural Science
DT Journal
LA English
AB A. niger B-1 (CMI CC 324626) extracellular RNase (**RNase B1**) was purified to homogeneity. It was found to contain 2 isoforms of 32- and 40-kDa glycoproteins, sharing a 29-kDa protein moiety. Optimal RNase activity was observed at 60° and pH 3.5. In "Almog" peach [Prunus persica (L.) Batsch (Peach Group) "Almog"] and "Murcott" tangerine (Citrus reticulata Blanco "Murcott"), the enzymes inhibited pollen germination and pollen tube growth in vitro as well as in vivo. In field expts., spray application of the RNase caused a reduction in "Fantasia" nectarine [Prunus persica (L.) Batsch (Nectarine Group) "Fantasia"] fruit set and interfered with embryo development. The biol. effect of the RNase may be of horticultural value, due to its potential to control fertilization.
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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